

**WHAT IS CLAIMED IS:**

1. A pulley unit comprising pulleys, axial bodies capable of performing relative rotation with respect to each other and being disposed inside the pulleys to be concentric therewith, a one-way clutch interposed into an annular space formed between the pulleys and the axial bodies, a deep groove ball bearing provided on the base end side of the one-way clutch within the annular space, and a roller bearing provided on the free end side of the one-way clutch within the annular space,

wherein an inner rolling surface of a roller of the one-way clutch comprises an outer diameter surface of the axial body while an inner rolling surface of a rolling body of the roller bearing comprises an outer diameter surface of the axial body.

2. The pulley unit according to Claim 1, wherein an inner rolling surface of a rolling body of the deep groove ball bearing comprises an outer diameter surface of the axial body.

3. The pulley unit according to Claim 1 or 2, wherein an outer rolling surface of the roller of the one-way clutch comprises an inner diameter surface of the pulley and an outer rolling surface of the rolling body of the roller bearing comprises an inner diameter surface of the pulley.

4. The pulley unit according to Claim 3, wherein the outer rolling surface of the rolling body of the deep groove ball bearing comprises an inner diameter surface of the pulley.